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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590 11/09/2010

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314

EXAMINER

WILSON, MICHAEL H

ART UNIT PAPER NUMBER

1786

DATE MAILED: 11/09/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.

10/573,803 03/28/2006 Florian Dotz 288248US0PCT 9379

TITLE OF INVENTION: SYNTHESIS OF PHENYL-SUBSTITUTED FLUORANTHENES BY A DIESEL-ALDER REACTION AND THE USE THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/09/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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OBLON, SPIV 1940 DUKE STE ALEXANDRIA,	7590 11/09/ AK, MCCLELLA REET VA 22314		EUSTADT, L.L.Phe Stat addi tran	Certificate reby certify that this Fee(es Postal Service with sul- essed to the Mail Stop smitted to the USPTO (57	e of Mailing or Transn s) Transmittal is being fficient postage for first ISSUE FEE address (1) 273-2885, on the da	nission deposited with the United class mail in an envelope above, or being facsimile te indicated below.
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/573,803	03/28/2006		Florian Dotz	2	288248US0PCT	9379
TITLE OF INVENTION THEREOF	N: SYNTHESIS OF PI	HENYL-SUBSTITUTEI	O FLUORANTHENES B	Y A DIESEL-ALDER	REACTION AND T	HE USE
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/09/2011
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
WILSON, M	ICHAEL H	1786	428-690000	•		
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED OF CORRESPONDENCE DATA TO BE PRINTED DATA TO BE PRINTED OF CORRESPONDENCE DATA TO BE PRINTED DATA TO BE			registered attorney or agents and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
PLEASE NOTE: Unl recordation as set forth (A) NAME OF ASSIC	ess an assignee is identi n in 37 CFR 3.11. Comp 3NEE	ified below, no assignee oletion of this form is NO	data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assignee is in assignment. and STATE OR COUNT	TRY)	_
Please check the appropri	ate assignee category or	categories (will not be p	rinted on the patent):	Individual	ion or other private gro	up entity Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038 is atta	ached. required fee(s), any def	
	s SMALL ENTITY statu	s. See 37 CFR 1.27.	b. Applicant is no long	-		
NOTE: The Issue Fee and interest as shown by the r	ecords of the United Sta	nrea) will not be accepte tes Patent and Trademark	ed from anyone other than t k Office.	ne applicant; a registered	auorney or agent; or the	e assignee or other party in
Authorized Signature Date						
Typed or printed name Registration No This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTC						
This collection of informan application. Confident submitting the completed this form and/or suggestie Box 1450, Alexandria, V Alexandria, Virginia 223	iality is governed by 35 application form to the ons for reducing this bur irginia 22313-1450. DO	FR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th O NOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est y depending upon the indiv he Chief Information Office COMPLETED FORMS TO	etain a benefit by the pub imated to take 12 minute idual case. Any commen r, U.S. Patent and Trader) THIS ADDRESS. SEN	lic which is to file (and s to complete, including ts on the amount of tim nark Office, U.S. Depa D TO: Commissioner fo	by the USPTO to process) g gathering, preparing, and the you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/573,803	03/28/2006	Florian Dotz	288248US0PCT 9379		
22850 7			EXAMINER		
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314		WILSON, M	MICHAEL H		
		ART UNIT PAPER NUMBER			
		1786			
			DATE MAILED: 11/09/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 483 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 483 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
Notice of Allowability	10/573,803	DOTZ ET AL.	
rodice of Amonability	Examiner	Art Unit	
	MICHAEL H. WILSON	1786	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commun IGHTS. This application is su	this application. If not included nication will be mailed in due cou	rse. THIS
1. This communication is responsive to <u>7 September 2010</u> .			
2. The allowed claim(s) is/are 1,3,4 and 7-21.			
 3. Acknowledgment is made of a claim for foreign priority units a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		r (f).	
2. Certified copies of the priority documents have	e been received in Application	No	
3. Copies of the certified copies of the priority do	cuments have been received	in this national stage application	from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the require	ements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			CE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review	(PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	<i>,</i>		
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date	s Amendment / Comment or i	n the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ck) of
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 			e the
Attachment(s)	E □ Notice of Info	armal Datant Application	
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 		ormal Patent Application	
 Information Disclosure Statements (PTO/SB/08), 	Paper No./N	Mail Date Amendment/Comment	
Paper No./Mail Date			
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		Statement of Reasons for Allowar	nce
	9. Other		
	/D. Lawrence T Supervisory Pate	arazano/ ent Examiner, Art Unit 1786	

Art Unit: 1786

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Andres on 25 October 2010.

The application has been amended as follows:

- In claim 1, delete "n is 1" in line 19 and replace it with
 - --when X is an alkyl radical n is 2 or 3,
 - when X is a radical of the formula (I') n is 1,
 - when X is an oligophenyl group n is 1,--.
- In claim 4, delete "n is 1" in line 8 and replace it with --n is 2 or 3--.
- In claim 7, delete "n is 1" in line 20 (last line of the claim) and replace it with
 - --when X is an alkyl radical n is 2 or 3,
 - when X is a radical of the formula (I') n is 1,
 - when X is an oligophenyl group n is 1,-- .

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DETAILED ACTION

Response to Amendment

2. This Office action is in response to Applicant's amendment filed 16 March 2010, which amends claims 1, 4, and 7.

Claims 1, 3, 4, and 7-21 are pending.

3. Applicants overcame the rejection of claims 1, 3, 4 and 7-21 are rejected under 35 U.S.C. 112, first paragraph by amending the claims in the reply filed 7 September 2010.

Allowable Subject Matter

- 4. Claims 1, 3, 4, and 7-21 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

The closest prior art, Kitamoto et al. (JP H10-189248 A), discloses similar fluoranthene compounds wherein X is an alkyl group with n = 1, however the reference does not teach or suggest n = 2. Hosokawa et al. (JP 2002/069044 A), Cho et al. (US 2005/0067955 A1), and Wu et al. (From branched hydrocarbon propellers to C₃-symmetric graphite disks.) each teach fluoranthene compounds wherein n is 2 or larger, however each reference fails to teach or suggest the linking group X may be an alkyl group. The prior art also does not teach or suggest a fluoranthene compounds wherein X is an oligophenyl group or a radical of formula (I') as presently claimed.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL H. WILSON whose telephone number is (571)270-3882. The examiner can normally be reached on Monday - Thursday 7:30-5:00 (EST), Friday 7:30-4:00 with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Tarazano can be reached on (571) 272-1515. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. Lawrence Tarazano/ Supervisory Patent Examiner, Art Unit 1786

MHW